

SECRET

25X1

PAR 215

30 Nov 64

SUBJECT: Roller Transport Processor (24 Inch)

TASK/PROBLEM

1. Design and fabricate a self-threading processor capable of processing cut sheets up to 24 inches wide; the machine to be darkroom operating.

DISCUSSION

2. During this reporting period (1 Sept through 30 Nov) all sub-assemblies and drawings on the processing machine and dryer were completed and drawings on the processing machine and dryer were completed and released for fabrication. A design study of the recirculating systems and the attendant piping was completed. As a result of this study, pumps, heat exchangers, filters, flow-meters and other required hardware were prelisted and ordered.

3. Design effort is continuing on the pumping system, the control panel and all associated piping.

4. Preliminary Installation Engineering data sheets were completed and submitted.

5. A revised specification for the Processing Machine was written following the Progress Review Meeting held at the contractor's facility on 19 and 20 November 64. A copy of the revised specification is being submitted as an appendix to this report.

6. Tests carried out at the contractor's facility indicate that adequate washing can be attained without using the additional four-tank module referred to in previous reports.

7. It is agreed that provision will be made to include one tank of hypo clearing agent in the washing cycle.

Declass Review by NGA.

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GROUP 1
Excluded from automatic
downgrading and declassification

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PLANNED ACTIVITY

8. Continue design effort as planned.
9. Visit customer's facility to inspect installation site and to coordinate design effort with customer's requirements.

Note: See Specification No. 204B attached.

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Specification No. 204B
30 Nov 64

SPECIFICATION
FOR
ROLLER TRANSPORT PROCESSOR (24-INCH)

TASK/PROBLEM

1. Design and fabricate a self-threading photographic processor capable of processing sheets up to twenty-four inches wide; the machine to be darkroom operating.

PROCESSING METHOD

2. Roller transport conveyance through deep tank. Agitation accomplished by action of conveying rollers.

MATERIAL CAPABILITIES

3. Film Size:

- a. Cut sheet material only:
 - (1) Minimum 4 x 5 inches.
 - (2) Maximum 20 x 24 inches.

4. Material: Black-and-white treated paper base material and black-and-white single and double weight standard paper base materials.

NOTE: It should be recognized that with roller transport equipment, paper base materials may require a pilot-tab at the leading edge in order to be self-threading.

OUTPUT RATES

5. Output Rates: (Approximately - 20 x 24 inch sheets)
- a. Double Weight Standard Base - 3.5 to 4 sheets/min.
 - b. Treated Paper Base - 8 to 10 sheets/min.

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PROCESS TIME

6. Dry to Dry - Standard base double weight paper, 0.5 hour.
7. Dry to Dry - Treated paper base material, 12 minutes.

PRODUCT QUALITY

8. Good commercial quality (approximately five years).

PROCESSING TEMPERATURE

9. 70°F to 100°F

DRYING

10. High velocity air impingement drying first stage. Drum dryer to be auxiliary equipment to operate in tandem with impingement dryer for second stage when required.

OPERATION

11. Darkroom feed.

RACK HOIST

12. Light, hand-operated rack hoist, required to remove processing racks from machine will be furnished with equipment.

PHYSICAL DIMENSIONS

13. Over-all Dimensions
 - a. Length 16 feet
 - b. Width 5 feet
 - c. Height 7 feet, 8 inches
 - d. Weight 7,000 pounds installed, empty.

SERVICE REQUIREMENTS

14. Service Requirements:
 - a. Electrical: 220/208 volts, 100 amperes, 60 cps, AC, 3-phase
 - b. Water: Hot 130°F ± 10°F; Chilled: 50° ± 5°F, 30 psig minimum.
 - c. Air: 25 psig maximum, instrument air.